

4 to obtain secure data exchanges between said interconnected entities (U_1 , 36a-36b, 37a-
5 37d).

1 5. Method according to claim 4, characterized in that, said first entity being a
2 user (U_1) of said first system (4, 20), it includes a step for authenticating said user (U_1)
3 and in that said IP address is used as data for identifying this user (U_1).

1 6. Method according to claim 5, characterized in that since said
2 communications take place in data packet mode, said data for identifying a user (U_1) is
3 present in encrypted form in conformity with said IPSec protocol, in each of said data
4 packets.

1 7. Method according to claim 1, characterized in that said first system (4, 20)
2 is connected to a wireless transmission segment (RTT), in that the communications
3 between this first system constituting a client system (4, 20) and said second system
4 constituting a server system (3, 3') take place in conformity with the so-called WAP
5 protocol, and in that it includes the installation in said second system (3, 3') of at least one
6 piece of software constituting a WAP server (30) and a second piece of software (32)
7 forming a unified interface between said WAP server (30) and at least one application
8 (36a-36b, 37a-37d) offering its services to said first entity (U_1), so that said WAP server
9 (30) is integrated into said server system (3, 3') as a web server.

1 8. Method according to claim 7, characterized in that it includes the
2 installation in said second system (3, 3') of an additional module (35) for two-way
3 interface adaptation of structures, which makes it possible to support application
4 interfaces (33) used by web servers.

1 9. Method according to claim 7, characterized in that it includes the
2 installation in said first system (4, 20) of a piece of software constituting a client and in
3 that said piece of software is a WAP browser.

1 10. Method according to claim 1, characterized in that, said first system being
2 a mobile system (25), it includes the assignment to said first system (25) of a temporary

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3 address, and in that it includes a step for dialog between said first system (25) and an
4 element called a "home agent" (23) connected to said internet network (*it*), which makes
5 it possible to correlate, at all times, said permanent address assigned to said first entity
6 (U_3) with said temporary address, in conformity with the so-called "mobile IPV6
7 protocol".

1 11. System architecture for secure communication between first and second
2 entities interconnected via an internet network, said entities being associated with first
3 and second computer data processing systems within a set of distributed systems
4 connected to said internet network, characterized in that said first system (4, 20) is a
5 system operating in the so-called client mode and said second system (3, 3') is a system
6 operating in the so-called server mode, in that said first and second entities are pieces of
7 software (36a-36b, 37a-37d) hosted in said first (4, 20) and second (3, 3') systems and/or
8 a user (U_1) of said connected systems, in that said entities (U_1 , 36a-36b, 37a-37d) are
9 associated with permanent Internet addresses of the so-called IP type, in that said second
10 system (3, 3') forming the server comprises at least one piece of software (31) forming a
11 server (30, 31) and offering the services of at least one application (36a-36b, 37a-37d) to
12 said first entity (U_1), and in that said first (4, 20) and second (3, 3') systems include a
13 communication protocol stack comprising at least one address layer (44, 390) using said
14 permanent IP address and a logical layer (45, 391) for the execution of a step for
15 encrypting, in end-to-end mode in conformity with a given security protocol, data
16 exchanged between said interconnected entities (U_1 , 36a-36b, 37a-37d).

1 12. Architecture according to claim 11, characterized in that said address layer
2 (44, 390) conforms to the IPV6 protocol.

1 13. Architecture according to claim 12, characterized in that since said internet
2 network (*R*) conveys data packets in conformity with the IPV4 protocol, said protocol
3 stacks of said first (4, 20) and second (3, 3') systems each include a first address layer (44,
4 390) using said IP address in the IPV6 protocol, and a second address layer (46, 392) in
5 the IPV4 protocol from which IPV6-compatible addresses are derived, in order to obtain
6 exchanges in the so-called tunnel mode; said logical layers (45, 391) executing an

7 encryption step (45, 37) in favor of said data packets exchanged between said
8 interconnected entities (U_1 , 36a-36b, 37a-37d).

1 14. Architecture according to claim 11, characterized in that said logical layers
2 (45, 391) for executing an encryption step conform to the so-called IPSec protocol, used
3 with the so-called EPS mechanism for identifying information sources, in the so-called
4 tunnel mode, in order to obtain secure data exchanges between said interconnected
5 entities (U_1 , 36a-36b, 37a-37d).

1 15. Method according to claim 11, characterized in that said first system
2 (4, 20) is connected to a wireless transmission segment (RTT), in that the communications
3 between this first system (4, 20) constituting a client system and said second system (3,
4 3') constituting a server system take place in conformity with the so-called WAP protocol,
5 and in that said second system (3, 3') includes at least a first module constituting a WAP
6 server (30) and a second module (32) forming a unified interface between said WAP
7 server (30) and at least one application (36a-36b, 37a-37d) offering its services to said
8 first entity (U_1), so that said WAP server (30) is integrated into said server system (3, 3')
9 as a web server.

1 16. Architecture according to claim 15, characterized in that said second
2 system (3, 3') includes at least one additional module (38a-38b) for the two-way
3 conversion of data packets of structures in conformity with said web or WAP protocols.

1 17. Architecture according to claim 15, characterized in that said first system
2 is a mobile telephone terminal (20, 4) in the so-called GSM standard, in that it includes a
3 WAP type browser constituting a client, and in that it includes a display screen for
4 displaying pages in a language of the so-called WML type.

1 18. Architecture according to claim 15, characterized in that said first system
2 is a mobile telephone terminal in the so-called GPRS standard, in that it includes an
3 Internet browser constituting a client, and in that it includes a display screen for
4 displaying pages in a language of the so-called WML type.